

0083-0865-2



IN THE UNITED STATES PATENT & TRADEMARK OFFICE

#30/9  
12/10/01  
JW

IN RE APPLICATION OF: :

Masashi GOTOH, et al. : EXAMINER: CUNEO, K.

SERIAL NO.: 09/119,626 :

RCE FILED: Herewith : GROUP ART UNIT: 2841

FOR: CIRCUIT BOARD HAVING  
BONDING AREAS TO BE  
JOINED WITH BUMPS BY  
ULTRASONIC BONDING

REG'D  
U.S. PAT. & T.M.  
TO 2841 MAIL ROOM

**PRELIMINARY AMENDMENT**

12/19(c)  
✓ ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Prior to further consideration of the above-identified application, please amend the application as follows:

**IN THE CLAIMS**

Please cancel Claims 7, 9, and 13-15 without prejudice or disclaimer.

Please add new Claims 16-18, as follows:

*Sub  
E1  
PT*  
16. (New) A chip part device comprising:

a circuit board having a plurality of bonding areas defined by conductive pattern; and

a chip element mounted on said circuit board, and having a plurality of bump

electrodes which are joined with said bonding areas by ultrasonic bonding,

wherein said circuit board includes at least two grooves defined by said conductive pattern, and located approximate to one of said bonding areas to put the bonding area therebetween.

17. (New) A chip part device as claimed in claim 16, wherein said groove is formed extending in a direction traversing an ultrasonically vibrating direction of the ultrasonic bonding.

18. (New) A chip part device as claimed in claim 16, wherein said at least two grooves is provided in said conductive layer as at least one of an isolated notch part and a recess located proximate to and not extending within said one of said bonding areas, wherein said notch part or recess partially narrows said conductive pattern to form a narrow pattern part.

REMARKS

Favorable reconsideration of this application as presently amended is respectfully requested.

Claims 16-18 are presently active in this case, Claims 7, 9, and 13-15 having been canceled and Claims 16-18 having been added by way of the present amendment.

It is respectfully submitted that the present application is in condition for formal allowance and an early and favorable reconsideration of this application is therefore requested.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
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